

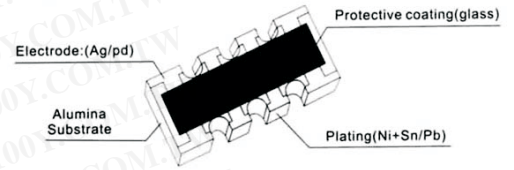
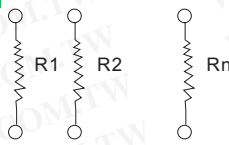
Resistors & Potentiometers

Thick Film Chip Resistor Networks

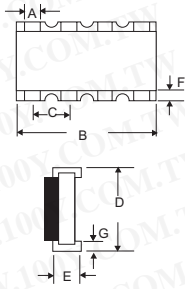
Detailed product specifications are available on: us.100y.com.tw

INTERNAL CIRCUIT

N=2, 4, 8



DIMENSIONS



Type	Number of Resistors	A	B	C	D	E	F	G
LCA16	2	0.5±0.15	1.6±0.2	0.8±0.05	1.6±0.2	0.5±0.1	0.3±0.15	0.3±0.15
	4		3.2±0.2					
	8		6.4±0.2					
LCA20	2	0.9±0.15	2.54±0.3	1.27±0.05	2.0±0.2	0.6±0.1	0.4±0.2	0.4±0.15
	4		5.08±0.3					
	8		10.16±0.3					
LCA32	2	0.9±0.15	2.54±0.3	1.27±0.05	3.2±0.2	0.6±0.1	0.5±0.2	0.5±0.15
	4		5.08±0.3					
	8		10.16±0.3					

CHARACTERISTICS

Item	LCA16	LCA20	LCA32
Power rating	1/16W	1/10W	1/8W
Max working voltage	50V	100V	200V
Resistance tolerance	±1% (F), ±2% (G), ±5% (J)		
Resistance range	E-24 series (10 ohm~1M ohm)		
T. C. R	±200ppm/°C		
Number of resistors	2, 4, 8		
Operating temp. range	-55°C~125°C		
Rating temperature	+70°C		

SPECIFICATIONS

Requirements	Characteristics	Test method
Short time over-load	±1%	Rated voltage x 2.5, 5seconds
Soldering heat	±1%	260±5°C, 10±1 seconds
Temperature cycling	±1%	125°C (30min) → normal (15min) → -30°C (30min) → normal (15min), 5cycles
Moisture load-life	±2%	Rated voltage, 40°C±2°C, 90~95%RH, 1000 ^h ₀ ⁴⁸ Hrs
Load-life	±2%	Rated voltage, 70°C±3°C, 1000 ^h ₀ ⁴⁸ Hrs

Part No.	Product No.	Description	Resistance data(Ω)	Tolerance(±)	Power Rating (W)	Max. Working Volt.	Package
30572	WX06X270JTL	Thick Film Chip Resistor Networks	27 ohm	±5%	0.0625W	50V	5000pcs/R
20616	WX06X330JTL	THICK FILM CHIP RESISTORS ARRAYS	33 ohm	±5%	0.0625W	50V	5000PCS/R
13417	WX06X510JTL	Thick Film Chip Resistor Networks	51 ohm	+/-5%	0.0625W		5000PCS/R

CONSTRUCTION

The resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive paste. The composition of the paste is adjusted to give the approximate required resistance and laser cutting of this resistive layer that achieves tolerance trims the value. The resistive layer is covered with a protective coat.

Finally, the four external terminations (pure Tin) are added. See fig. 2.

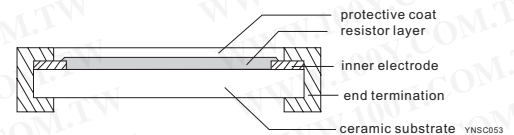


Fig. 2 Chip resistor construction

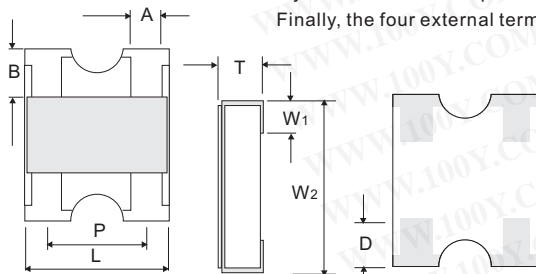


Fig. 3 Chip resistor dimension

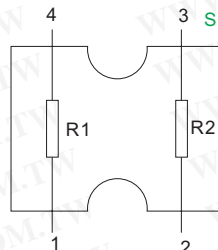


Fig. 4 Equivalent circuit diagram

SCHEMATIC

TYPE	YC122
A (mm)	0.21 +0.10/-0.05
B (mm)	0.20 ±0.10
P (mm)	0.67 ±0.05
L (mm)	1.00 ±0.10
T (mm)	0.35 ±0.10
W1 (mm)	0.25 ±0.10
W2 (mm)	1.00 ±0.10
D (mm)	0.20 ±0.10

CHARACTERISTICS

	YC122 1/16 W
Operating Temperature Range	-55 °C to +125 °C
Maximum Working Voltage	50 V
Maximum Overload Voltage	100 V
Dielectric Withstanding Voltage	100 V



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